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August 15, 2003

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U.S. Patent Application Serial No. 09/820,584

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GROUP 3600

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

LeBLANC et al.

Serial No.: 09/820,584

Filed: March 28, 2001

Atty. File No.: 1004-1

For: "LOCATION OF A MOBILE
STATION USING A PLURALITY OF
COMMERCIAL WIRELESS
INFRASTRUCTURES"

Group Art Unit: 3662

Examiner: Dao L. Phan

INFORMATION DISCLOSURE
STATEMENT

Express Mail Label: EV190613758US

EV190613758US

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

Copies of the cited references:

☒ Are enclosed herewith.

☐ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following co-pending applications, copies of which have been or will be submitted:

Serial No.09/194,367

filed Nov. 24, 1998

Serial No.09/770,838

filed Jan 26, 2001

Serial No.10/262,413

filed Sept. 30, 2002

Serial No.10/262,338

filed Sept. 30, 2002

Serial No.09/176,587

filed Oct. 21, 1998

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GROUP 3600

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

<input checked="" type="checkbox"/>	<p>37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or <input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or <input checked="" type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p>37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <ul style="list-style-type: none"> (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. <p>This Information Disclosure Statement is accompanied by:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(c). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <input type="checkbox"/> A check in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.
<input type="checkbox"/>	<p>37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <ul style="list-style-type: none"> <input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> <input type="checkbox"/> Applicants hereby request consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. <p>Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.</p>

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

By: 

Dennis J. Dupray
Registration No. 46,299
1560 Broadway, Suite 1200
Denver, CO 80202-5141
TELEPHONE: 303-863-2975
FAX: 303-863-0223

Date: Dec. 10 2002

EXFACBEAM\patent applications\1004\1\Pro\IDS-04.wpd

SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
DP	1.	6,249,245	6/19/2001	Watters et al.	342	357.03	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
DP	2.	WO 01/95642	Dec. 13, 2001	PCT	H04Q			

OTHER ART (including Author, Title, Date, Pertinent Pages, etc.)

DP	3.	Pending Claims only: U.S. Patent Application Serial No. 09/194,367 filed November 24, 1998 entitled "WIRELESS LOCATION USING MULTIPLE MOBILE STATION LOCATION TECHNIQUES," which is the U.S. National Phase Application of International Application Serial No. PCT/US97/15892 with International Filing Date of September 8, 1997, which was published under International Publication No. WO 98/10307 with an International Filing Date of March 12, 1998 (Copy of specification submitted in previously IDS.) (1003-PUS)
DP	4.	Pending Claims only: U.S. Patent Application Serial No. 09/770,838 filed January 26, 2001 entitled "A GATEWAY AND HYBRID SOLUTIONS FOR WIRELESS LOCATION," which is a continuation of the above listed U.S. Patent Application Serial No. 09/194,367 filed November 24, 1998 entitled "WIRELESS LOCATION USING MULTIPLE MOBILE STATION LOCATION TECHNIQUES," which is the U.S. National Phase Application of International Application Serial No. PCT/US97/15892 with International Filing Date of September 8, 1997, which was published under International Publication No. WO 98/10307 with an International Filing Date of March 12, 1998 (Copy of specification submitted in previously IDS.) (1003-1)
DP	5.	Pending Claims only: U.S. Patent Application Serial No. 10/262,413 filed September 30, 2002 entitled "WIRELESS LOCATION USING HYBRID TECHNIQUES," which is a continuation of the above listed 09/194,367 filed November 24, 1998 entitled "WIRELESS LOCATION USING MULTIPLE MOBILE STATION LOCATION TECHNIQUES," which is the U.S. National Phase Application of International Application Serial No. PCT/US97/15892 with International Filing Date of September 8, 1997, which was published under International Publication No. WO 98/10307 with an International Filing Date of March 12, 1998 (Copy of specification submitted in previously IDS.) (1003-2)
DP	6.	Pending Claims only: U.S. Patent Application Serial No. 10/262,338 filed September 30, 2002 entitled "WIRELESS LOCATION USING SIGNAL DIRECTION AND TIME DIFFERENCE OF ARRIVAL," which is a continuation of the above listed U.S. Patent Application Serial No. 09/194,367 filed November 24, 1998 entitled "WIRELESS LOCATION USING MULTIPLE MOBILE STATION LOCATION TECHNIQUES," which is the U.S. National Phase Application of International Application Serial No. PCT/US97/15892 with International Filing Date of September 8, 1997, which was published under International Publication No. WO 98/10307 with an International Filing Date of March 12, 1998 (Copy of specification submitted in previously IDS.) (1003-3)

EXAMINER <i>Drw</i>	DATE CONSIDERED 9/3/03
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and to applicant.

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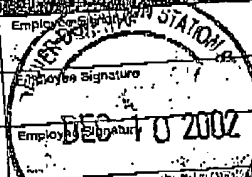
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Application Docket No.: 1004-1

Applicant: LeBlanc et al.

Title or Mark: "LOCATION OF A MOBILE STATION USING A PLURALITY OF COMMERCIAL WIRELESS INFRASTRUCTURES"

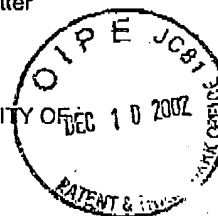
Serial/Reg. No.: 09/820,584

Filed/Issued Date: March 28, 2001

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LIST ALL DOCUMENTS BEING SENT TO PATENT OFFICE:

Information Disclosure Statement
Form PTO-1449
References



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No. of Pages in Specification

No. of Pages in Claims

No. of Sheets of Drawings

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:)
LeBLANC et al.)
Serial No.: 09/820,584)
Filed: March 28, 2001)
Atty. File No.: 1004-1)
For: "LOCATION OF A MOBILE)
STATION USING A PLURALITY OF)
COMMERCIAL WIRELESS)
INFRASTRUCTURES")

Group Art Unit: 3662
Examiner: Dao L. Phan
INFORMATION DISCLOSURE
STATEMENT
Express Mail Label: EV190613554US

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

Copies of the cited references:

- ☒ Are enclosed herewith.
- ☐ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120

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☒ Examiner's attention is drawn to the following co-pending applications, copies of which have been or will be submitted:

Serial No.09/194,367	filed	Nov. 24, 1998
Serial No.09/770,838	filed	Jan 26, 2001
Serial No.10/262,413	filed	Sept. 30, 2002
Serial No.10/262,338	filed	Sept. 30, 2002
Serial No.09/176,587	filed	Oct. 21, 1998

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FEES

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

By: 

Dennis J. Dupray
Registration No. 46,299
1560 Broadway, Suite 1200
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TELEPHONE: 303-863-2975
FAX: 303-863-0223

Date: Nov. 11, 2002
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SHEET 1 OF 4

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
1004-1SERIAL NO.
09/820,584INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT
DUPRAY et al.FILING DATE
March 28, 2001

GROUP ART

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
DP	1	6,185,427	2/6/2001	Krasner et al.	455	456	
	2	6,167,274	12/28/2000	Smith	455	456	
	3	6,157,621	12/5/00	Brown et al.	370	310	
	4	6,108,555	8/22/2000	Maloney et al.	455	456	
	5	6,097,958	8/1/2000	Bergen	455	456	
	6	5,903,844	5/11/1999	Bruckert et al.	455	456	
	7	5,893,091	4/6/99	Hunt et al.	707	3	
	8	5,873,040	2/16/99	Dunn et al.	455	456	
	9	5,872,539	2/16/99	Mullen	342	357	
	10	5,870,029	2/9/99	Otto et al.	340	825.35	
	11	5,844,522	12/1/98	Sheffer et al.	342	457	
	12	5,842,130	11/24/1998	Opreacu-Surcobe et al.	455	456	
	13	5,838,562	11/17/98	Gudat et al.	364	424.02	
	14	5,835,907	11/10/1998	Newman	707	10	
	15	5,835,857	11/10/1998	Otten	455	410	
	16	Re. 35,916	10/6/1998	Dennison et al.	455	456	
	17	5,815,814	9/29/1998	Dennison et al.	455	456	
	18	5,815,538	9/29/98	Grell et al.	375	356	
	19	5,786,773	7/28/98	Murphy	340	947	
	20	5,754,955	5/19/1998	Ekbatani	455	422	
	21	5,732,074	3/24/1998	Spaur et al.	370	313	
	22	5,729,549	3/17/1998	Kostreski et al.	370	522	
	23	5,710,918	1/20/1998	Lagarde et al.	395	610	
	24	5,710,758	1/20/1998	Soliman et al.	370	241	
DP	25	5,686,924	11/11/97	Trimble et al.	342	357	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET 2 OF 4

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	26	5,673,322	9/30/1997	Pepe et al.	380	49	
↑	27	5,657,487	8/12/1997	Doner	455	456	
	28	5,652,570	7/29/1997	Lapkofer	340	573	
	29	5,649,065	7/15/97	Lo et al.	395	23	
	30	5,646,630	7/8/97	Sheynblat et al.	342	357	
	31	5,640,103	6/17/97	Petsche et al.	324	772	
	32	5,638,486	6/10/97	Wang et al.	395	2.45	
	33	5,631,469	5/20/97	Carrier et al.	250	341.5	
	34	5,625,668	4/29/1997	Loomis et al.	379	58	
	35	5,621,848	4/15/97	Wang	395	2.2	
	36	5,613,041	3/18/97	Keeler et al.	395	23	
	37	5,600,706	2/4/1997	Dunn et al.	379	59	
	38	5,583,513	12/10/96	Cohen	342	357	
	39	5,572,218	11/5/96	Cohen et al.	342	357	
	40	5,564,079	10/8/96	Olsson	455	54.1	
	41	5,517,667	5/14/96	Wang	395	24	
	42	5,515,419	5/7/1996	Sheffer	379	58	
	43	5,515,378	5/7/1996	Roy, III et al.	370	95.1	
	44	5,438,644	8/1/95	Fu	395	22	
	45	5,426,745	7/20/95	Baji et al.	395	375	
	46	5,408,588	4/18/95	Ulug	395	23	
	47	5,408,586	4/18/95	Skeink	395	23	
	48	5,398,302	3/14/95	Thrift	395	23	
	49	5,388,147	2/7/1995	Grimes	379	59	
	50	5,331,550	7/19/94	Stafford et al.	364	413.02	
	51	5,293,845	3/8/1994	Sood	455	54.1	
	52	5,282,261	1/25/94	Skeink	395	22	
↓	53	5,251,273	10/5/93	Betts et al.	382	57	
DP	54	5,235,633	8/10/1993	Dennison et al.	379	60	

EXAMINER <i>Duo</i>	DATE CONSIDERED 9/3/03
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	55	5,223,644	6/29/1993	Mansell et al.	342	357	
	56	5,212,765	5/18/93	Skelrk	395	11	
	57	5,177,489	1/5/93	Halch	342	357	
	58	5,155,490	10/13/92	Spradley et al.	342	357	
	59	5,136,686	8/4/92	Koza	395	13	
	60	5,119,102	6/2/92	Barnard	342	357	
	61	5,092,343	3/3/92	Spitzer et al.	128	733	
	62	5,043,736	8/27/1991	Daniell et al.	342	357	
	63	5,034,898	7/23/91	Lu et al.	364	513	
	64	4,990,922	2/5/91	Young et al.	342	52	
	65	4,952,772	8/28/90	Zana	219	124.34	
	66	4,700,374	10/13/1987	Bini	379	60	
DP	67	3,886,553	5/27/75	Bates	343	112 R	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
DP	68	WO 01/95642	Dec. 13, 2001	PCT	H04Q	7/20		
DP	69	WO 98/00982	Jan. 8, 1998	PCT	H04Q			
DP	70	WO 97/26750	Jul. 24, 1997	PCT	H04M	11/00		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

DP	71	U.S. Patent Application Serial No. 09/176,537 filed October 21, 1998 entitled "A WIRELESS LOCATION SYSTEM FOR CALIBRATING MULTIPLE LOCATION ESTIMATORS." (1005)
DP	72	CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; <u>ex parte</u> communication from Cambridge Positioning Systems Ltd. received April 14, 1997 by the Commission

EXAMINER <i>Drw</i>	DATE CONSIDERED 9/3/03
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SHEET 4 OF 4

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	73	Lepkofker; U.S. Patent Application No. 08/246,149 Entitled 'INDIVIDUAL LOCATION SYSTEM'; May 19, 1994
↑	74	Maloney et al.; U.S. Provisional Patent Application No. 60/017,899 Entitled "ENHANCED TIME-DIFFERENCE LOCALIZATION SYSTEM"; May 17, 1996
	75	Kosko, "Fuzzy Systems as Universal Approximators", 1994, <i>IEEE</i> , pgs. 1329-1333
	76	Mardiraju et al., "Neural Networks for Robust Image Feature Classification: A Comparative Study", 1994, <i>IEEE</i> , pgs. 423-430
	77	Rizzo et al., "Integration of Location Services in the Open Distributed Office", 1994, pgs. 1-14
	78	Caffery et al.; "Vehicle Location and Tracking for IVHS in CDMA Microcells"; 5 pgs.
	79	Caffery et al.; "Radio Location in Urban CDMA Microcells"; 5 pgs.
	80	Beck et al.; "Simulation Results on the Downlink of a Qualcomm-like DS-CDMA-System Over Multipath fading channels"; pgs. 1-7
	81	Pop et al.; "Site Engineering for Indoor Wireless Spread Spectrum Communications"; 3 pgs.
	82	Caffery et al.; "Overview of Radiolocation in CDMA Cellular Systems"; <i>IEEE Communications Magazine</i> ; April 1998; pgs. 38-45
	83	Salicrú; "AGPCS: An Automatic GSM-based Positioning and Communication System" <i>Proceedings of GeoComputation 1997 & SIRC 1997</i> ; pgs. 15-22
DP	84	Ramanathan et al.; "A Survey of Routing Techniques for Mobile Communications Networks"; 1996; pgs. 1-31

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Applicant: LeBlanc et al.

Title or Mark: "LOCATION OF A MOBILE STATION USING A PLURALITY OF COMMERCIAL WIRELESS INFRASTRUCTURES"

Serial/Reg. No.: 09/820,584

Filed/Issued Date: March 28, 2001

[] Certificate of Mailing

No. of Pages in Specification

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No. of Sheets of Drawings

LIST ALL DOCUMENTS BEING SENT TO PATENT OFFICE:

Information Disclosure Statement
Form PTO-1449
84 References

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:) Group Art Unit: 3662
)
LeBLANC et al.) Examiner: Dao L. Phan
)
Serial No.: 09/820,584) INFORMATION DISCLOSURE
) STATEMENT
Filed: March 28, 2001)
)
Atty. File No.: 1004-1) Express Mail Label: EV 190613523US
)
For: "LOCATION OF A MOBILE)
STATION USING A PLURALITY OF)
COMMERCIAL WIRELESS)
INFRASTRUCTURES")

Assistant Commissioner for Patents
Washington, D. C. 20231

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

Copies of the cited references:

☒ Are enclosed herewith.

☒ Copies marked by an asterisk (*) mark are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/230,109 filed January 22, 1999 (now U.S. Patent No. 6,236,365), which is relied upon for an earlier filing date under 35 U.S.C. § 120

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following co-pending applications, copies of which have been or will be submitted:

Serial No.09/194,367	filed	Nov. 24, 1998
Serial No.09/770,838	filed	Jan 26, 2001
Serial No.10/262,413	filed	Sept. 30, 2002
Serial No.10/262,338	filed	Sept. 30, 2002
Serial No.09/176,587	filed	Oct. 21, 1998

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

<input checked="" type="checkbox"/>	<p>37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or <input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or <input checked="" type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p>37 CFR 1.97(e): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <ul style="list-style-type: none"> (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. <p>This Information Disclosure Statement is accompanied by:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <input type="checkbox"/> A check in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.

<input type="checkbox"/>	<p>37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(e).</p> <p><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</p> <p>AND</p> <p><input type="checkbox"/> Applicants hereby request consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.</p>
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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

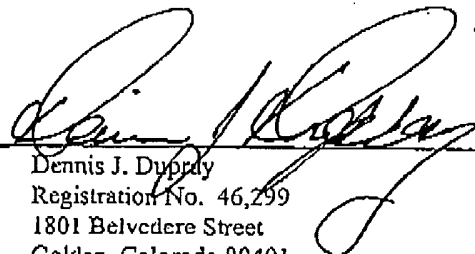
OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(e) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

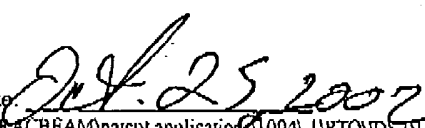
Respectfully submitted,

OFFICIAL

By:


Dennis J. Dupray
Registration No. 46,299
1801 Belvedere Street
Golden, Colorado 80401
TELEPHONE: 303-863-2975
FAX: 303-863-0223

Date:

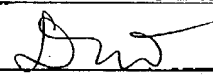

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SHEET 1 OF 13

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
DP	1	6,324,404	11/27/2001	Dennison et al.	455	456	
↑	2	6,321,092	11/20/2001	Fitch et al.	455	456	
	3	6,308,072	10/23/2001	Labadz et al.	455	448	
	4	6,249,252	6/19/2001	Dupray	342	450	
	5	6,236,365	5/22/01	LeBlanc et al.	342	457	
	6	* 6,101,391	8/8/00	Ishizuka et al.	455	457	
	7	* 6,101,390	8/8/00	Jayaraman et al.	455	456	
	8	* 6,101,178	8/8/00	Beal	370	336	
	9	* 6,064,942	5/16/00	Johnson et al.	701	213	
	10	* 6,064,339	5/16/00	Wax et al.	342	417	
	11	6,061,064	5/9/2000	Reichlen	345	418	
	12	* 6,047,192	4/4/00	Maloney et al.	455	456	
	13	* 6,046,683	4/4/00	Pidwerbetsky et al.	340	825.54	
	14	* 6,038,668	3/14/00	Chipman et al.	713	201	
	15	6,034,635	3/7/2000	Gilhousen	342	457	
	16	* 6,031,490	2/29/00	Forssén et al.	342	457	
	17	* 6,029,161	2/22/00	Lang et al.	707	1	
	18	* 6,028,551	2/22/00	Schoen et al.	342	357	
	19	* 6,026,304	2/15/00	Hilsenrath et al.	455	456	
↓	20	* 6,014,102	1/11/00	Mitzlaff et al.	342	457	
DP	21	* 6,009,334	12/28/99	Grubeck et al.	455	456	

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SHEET 2 OF 13

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	22	* 5,999,126	12/7/1999	Ito	342	357.1	
DP	23	* 5,999,124	12/7/99	Shaynblat	342	357.09	
	24	* 5,987,329	11/16/99	Yost et al.	455	456	
	25	* 5,983,214	11/9/99	Lang et al.	707	1	
	26	* 5,982,891	11/9/99	Ginter et al.	380	4	
	27	* 5,982,324	11/9/99	Walters et al.	342	357.06	
	28	* 5,978,840	11/2/99	Nguyen et al.	709	217	
	29	* 5,977,913	11/2/99	Christ	342	495	
	30	* 5,973,643	10/26/99	Hawkes et al.	342	457	
	31	5,966,658	10/12/1999	Kennedy, III et al.	455	426	
	32	* 5,963,866	10/5/99	Palamara et al.	455	456	
	33	* 5,962,969	9/14/99	Hagerman et al.	342	457	
	34	* 5,949,815	9/7/99	Pon	375	208	
	35	* 5,945,948	8/31/99	Buford et al.	342	457	
	36	* 5,943,014	8/24/99	Gilhausen	342	465	
	37	* 5,936,572	8/10/99	Loomis et al.	342	357	
	38	* 5,933,822	8/3/99	Braden-Harder et al.	707	5	
	39	* 5,933,421	8/3/99	Alamouli et al.	370	330	
	40	* 5,926,133	7/20/99	Green, Jr.	342	363	
	41	* 5,924,090	7/13/99	Kreienstein	707	5	
	42	* 5,920,873	7/6/99	Van Huben et al.	707	202	
	43	* 5,917,866	6/29/99	Pon	375	346	
	44	* 5,917,449	6/29/99	Sanderford et al.	342	457	
DP	45	5,914,675	6/22/1999	Tognazzini	340	989	
	46	* 5,913,170	6/15/99	Wortham	455	457	

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SHEET 3 OF 13

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	47	* 5,906,655	5/25/99	Fan	701	216	
↑	48	* 5,905,455	5/18/99	Heger et al.	342	22	
	49	* 5,901,358	5/4/99	Petty et al.	455	456	
	50	* 5,892,441	4/6/99	Woolley et al.	340	539	
	51	* 5,890,068	3/30/99	Fattouche et al.	455	456	
	52	* 5,883,598	3/16/99	Parl et al.	342	457	
	53	* 5,875,401	2/23/99	Rochkind	455	466	
	54	* 5,875,394	2/23/99	Daly et al.	455	411	
	55	* 5,873,076	2/16/99	Barr et al.	707	3	
	56	* 5,867,799	2/2/99	Lang et al.	707	1	
	57	* 5,867,495	2/2/99	Elliott et al.	370	352	
	58	5,864,755	1/26/99	King et al.	455	404	
	59	* 5,845,198	12/1/98	Bamburak et al.	455	31.1	
	60	* 5,832,367	11/3/98	Bamburak et al.	455	62	
	61	* 5,822,539	10/13/98	Van Hoff	395	200.66	
	62	* 5,819,301	10/6/98	Rowe et al.	707	513	
	63	* 5,819,273	10/6/98	Vora et al.	707	10	
	64	* 5,805,670	9/8/98	Pons et al.	379	45	
	65	* 5,802,518	9/1/98	Karaev et al.	707	9	
	66	* 5,802,454	9/1/98	Goshay et al.	455	31.2	
	67	5,790,974	8/4/1998	Tognazzini	701	204	
	68	* 5,790,953	8/4/98	WANG et al.	455	435	
	69	* 5,774,869	6/30/98	Toader	705	10	
↓	70	* 5,774,829	6/30/98	Cisneros et al.	701	213	
DP	71	* 5,774,802	6/30/98	Tell et al.	455	408	

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SHEET 4 OF 13

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/620,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	72	* 5,737,431	4/7/98	Brandstein et al.	381	92	
	73	* 5,736,964	4/7/98	Ghosh et al.	342	457	
	74	* 5,732,354	3/24/98	MacDonald	455	456	
	75	5,727,057	3/10/1998	Emery et al.	379	211	
	76	* 5,724,660	3/3/98	Kauser et al.	455	456	
	77	* 5,724,047	3/3/98	Lioio et al.	342	442	
	78	* 5,719,584	2/17/98	Otto	342	465	
	79	* 5,717,406	2/10/98	Sanderford et al.	342	457	
	80	* 5,701,328	12/23/97	Schuchman et al.	375	204	
	81	* 5,675,788	10/7/97	Husick et al.	395	615	
	82	5,675,344	10/7/97	Tong et al.	342	457	
	83	* 5,663,734	9/2/97	Krasner	342	357	
	84	* 5,629,707	5/13/97	Heuvel et al.	342	357	
	85	* 5,619,552	4/8/97	Karppanen et al.	379	60	
	86	* 5,614,914	3/25/97	Bolgiano et al.	342	364	
	87	* 5,613,205	3/18/97	Dufour	455	33.2	
	88	* 5,612,703	3/18/97	Mallinckrodt	342	457	
	89	5,611,704	3/18/1997	Kamizono et al.	439	164	
	90	* 5,610,972	3/11/97	Emery et al.	379	58	
	91	* 5,608,410	3/4/97	Slip et al.	342	387	
	92	* 5,604,765	2/18/97	Bruno et al.	375	200	
	93	* 5,602,903	2/11/97	LeBlanc et al.	379	60	
	94	5,600,705	2/4/1997	Maenpaa	379	58	
	95	* 5,598,625	1/21/97	LeBlanc	379	60	
DP	96	5,594,740	1/14/1997	LaDue	379	59	

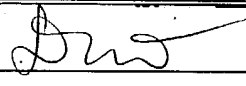
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SHEET 5 OF 13

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 1004-1	SERIAL NO. 09/820,584
	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	97	5,592,180	1/7/1997	Yokey et al.	342	450	
	98	* 5,583,517	12/10/96	Yokey et al.	342	457	
	99	* 5,581,596	12/3/96	Hogan	379	59	
	100	* 5,577,169	11/19/96	Prezioso	395	61	
	101	* 5,574,648	11/12/96	Pilley	364	439	
	102	* 5,570,412	10/29/96	LeBlanc	379	58	
	103	* 5,563,611	10/8/96	McGann et al.	342	389	
	104	5,561,704	10/1/1996	Salimando	379	58	
	105	5,555,257	9/10/1996	Dent	370	95.1	
	106	5,546,445	8/13/1996	Dennison et al.	379	60	
	107	* 5,537,460	7/16/96	Holliday, Jr. et al.	379	59	
	108	* 5,528,466	6/11/96	Takizawa	395	2.62	
	109	* 5,526,357	6/11/96	Jandrell	370	95.2	
	110	* 5,526,001	6/11/96	Rose et al.	342	442	
	111	* 5,519,760	5/21/96	Borkowski et al.	379	59	
	112	5,513,246	4/20/96	Jonsson et al.	379	60	
	113	* 5,512,908	4/30/96	Herrick	342	387	
	114	* 5,508,708	4/18/96	Ghosh et al.	342	457	
	115	* 5,508,707	4/16/96	LeBlanc et al.	342	457	
	116	* 5,506,864	4/9/96	Schilling	375	205	
	117	* 5,485,163	1/16/96	Singer	342	457	
	118	* 5,479,482	12/26/95	Grimes	379	59	
	119	* 5,479,397	12/26/95	Lee	370	18	
DP	120	* 5,457,736	10/10/95	Cain et al.	379	60	
	121	* 5,448,754	9/5/95	Ho et al.	455	34.1	

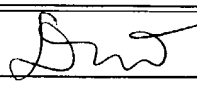
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DP	122	* 5,444,451	8/22/95	Johnson et al.	342	453	
↑	123	* 5,434,927	7/18/95	Brady et al.	382	104	
	124	* 5,422,813	6/6/95	Schuchman et al.	384	449	
	125	* 5,420,914	5/30/95	Blumhardt	379	114	
	126	* 5,410,737	4/25/95	Jones	455	56.1	
	127	* 5,402,520	3/28/95	Schnitta	395	22	
	128	5,395,366	3/7/1995	D'Andrea et al.	604	890.1	
	129	* 5,394,435	2/28/95	Weerackody	375	206	
	130	* 5,394,165	2/28/95	Chia	342	457	
	131	* 5,390,339	2/14/95	Bruckert et al.	455	33.2	
	132	* 5,389,934	2/14/95	Kass	342	357	
	133	* 5,388,259	2/7/95	Fleischman et al.	395	600	
	134	* 5,379,224	1/3/95	Brown et al.	364	449	
	135	* 5,365,544	11/15/94	Schilling	375	1	
	136	* 5,365,516	11/15/94	Jandrell	370	18	
	137	* 5,365,450	11/15/94	Schuchman et al.	364	449	
	138	* 5,365,447	11/15/94	Dennis	364	449	
	139	* 5,363,110	11/8/94	Inamiya	342	357	
	140	* 5,359,521	10/25/94	Kyrtos et al.	364	449	
	141	* 5,349,631	9/20/94	Lee	379	59	
	142	* 5,327,144	7/5/94	Stilp et al.	342	387	
	143	* 5,325,419	6/28/94	Connolly et al.	379	60	
	144	* 5,319,374	6/7/94	Desai et al.	342	387	
↓	145	* 5,317,323	5/31/94	Kennedy et al.	342	457	
DP	146	* 5,311,195	5/10/94	Mathis et al.	342	357	

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	APPLICANT DUPRAY et al.	
	FILING DATE March 28, 2001	GROUP ART

DP	147	* 5,295,180	3/15/94	Vendetti et al.	379	59	
	148	* 5,293,642	3/8/94	Lo	455	33.1	
	149	* 5,280,472	1/18/94	Gilhousen et al.	370	18	
	150	* 5,280,295	1/18/94	Kelley et al.	342	463	
	151	* 5,278,892	1/11/94	Bolliger et al.	379	60	
	152	* 5,260,711	11/9/93	Sterzer	342	375	
	153	<u>* 5,243,530</u>	9/7/93	Stanifer et al.	364	452	
	154	* 5,225,842	7/6/93	Brown et al.	342	357	
	155	* 5,218,716	6/8/93	Comroe et al.	455	33	
	156	* 5,218,618	6/8/93	Sagey	375	001	
	157	* 5,218,367	6/8/93	Shaffer et al.	342	457	
	158	* 5,214,789	5/25/93	George	455	33.2	
	159	* 5,212,804	5/18/93	Choate	455	33.1	
	160	5,208,755	5/4/1993	Song	364	706	
	161	* 5,191,342	3/2/93	Alsup et al.	342	465	
	162	* 5,184,347	2/2/93	Farwell et al.	370	94.1	
	163	* 5,166,694	11/24/92	Russell et al.	342	457	
	164	* 5,163,004	11/10/92	Rentz	364	460	
	165	* 5,142,590	8/25/92	Carpenter et al.	382	14	
	166	5,111,209	5/5/1992	Toriyama	342	357	
	167	* 5,099,245	3/24/92	Sagey	342	357	
	168	* 5,055,851	10/8/91	Sheffer	342	457	
	169	* 5,017,926	5/21/91	Ames et al.	342	353	
	170	* 5,008,679	4/16/91	Effland et al.	342	353	
DP	171	* 5,003,317	3/26/91	Gray et al.	342	457	

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DP	172	* 4,992,796	2/12/91	Apostolos	342	156	
	173	* 4,914,689	4/3/90	Quade et al.	379	142	
	174	* 4,888,593	12/19/89	Friedman et al.	342	387	
	175	4,879,713	11/7/89	Ichiyoshi	370	75	
	176	* 4,876,550	10/24/89	Kelly	342	451	
	177	* 4,864,313	9/5/89	Konneker	342	457	
	178	* 4,860,352	8/22/89	Laurance et al.	380	23	
	179	* 4,857,840	8/15/89	Lanchais	324	207	
	180	* 4,799,062	1/17/89	Sanderford, Jr. et al.	342	450	
	181	* 4,742,357	5/3/88	Rackley	342	457	
	182	* 4,740,792	4/26/88	Sagey et al.	342	457	
	183	* 4,670,758	6/2/87	Campbell	342	458	
	184	* 4,651,157	3/17/87	Gray et al.	342	457	
	185	* 4,636,795	1/13/87	Dano	342	387	
	186	* 4,630,057	12/16/86	Martin	342	358	
	187	* Re. 31,962	7/30/85	Brodeur	343	389	
	188	* 4,475,010	10/2/84	Huensch et al.	179	2 EB	
	189	* 4,438,439	3/20/84	Shreve	343	449	
	190	* 4,347,618	8/31/82	Kavouras et al.	375	37	
	191	* 4,232,313	11/4/80	Fleishman	343	6 R	
DP	192	* 4,023,176	5/10/77	Currie et al.	343	113 R	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
DP	193	EP 0 870 203 B1	Dec. 9, 1996	Europe	G01S	5/04		
↑	194	* EP 0 689 369 A1	Dec. 27, 1995	Europe	—	—		
	195	* EP 0 546 758 A2	Jun. 16, 1993	Europe	—	—		
	196	* EP 0 177 203 A2	Sept. 9, 1985	Europe	—	—		
	197	* GB 2 155 720 A	Mar. 8, 1984	Great Britain	—	—		
	198	* GB 1 605 207	Jun. 17, 1975	Great Britain	—	—	8485	
	199	WO 98/10307 (1003-PCT)	Mar. 12, 1998	PCT	G01S	3/02		
	200	WO 97/38540	Oct. 16, 1997	PCT	H04Q	7/22		
	201	WO 97/24010	Jul. 3, 1997	PCT	H04Q	7/38		
	202	WO 97/22888	Jun. 26, 1997	PCT	G01S	5/04		
	203	WO 97/01228	Jan. 9, 1997	PCT	H04B	7/26		
	204	WO 96/14588	May 17, 1996	PCT	G01S	5/02		
↓	205	* WO 94/27161	Apr. 28, 1994	PCT	—	—		
DP	206	* WO 93/04453	Mar. 4, 1993	PCT	—	—		

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DP	207	* CC Docket No. 94-102, Before the Federal Communications Commission, In the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; "Comments of Harris Government Communication Systems Division A Division of Harris Corporation", filed September 25, 1996
DP	208	* CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; "Reply Comments of KSI Inc. and MULIC Inc." filed October 25, 1996

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DP	209	* CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; <u>ex parte</u> communication from GeoTek Communications, Inc. received April 14, 1997 by the Commission
↑	210	* CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; <u>ex parte</u> communication from XYPPOINT Corporation, Inc. received July 28, 1997 by the Commission
	211	* CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; <u>ex parte</u> communication from National Strategies, Inc., regarding enhanced 911 system trial by TruePosition, Inc. and New Jersey Office of Emergency Telecommunications Services, received August 8, 1997 by the Commission
	212	* CC Docket No. 94-102, Before the Federal Communications Commission, in the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems; <u>ex parte</u> communication from SnapTrack, Inc., received June 27, 1997 by the Commission
	213	* from http://www.uswcorp.com/laby.htm , Release concerning RadioCamera™, printed 9/14/98
	214	* Wylie et al., "The Non-Line of Sight Problem in Mobile Location Estimation"
	215	* Evans, 1998, "New Satellites for Personal Communications," <i>Scientific American</i> , 278(4):70-77
	216	* Hills, 1998, "Terrestrial Wireless Networks," <i>Scientific American</i> , 278(4):86-91
	217	* Pelton, 1998, "Telecommunications for the 21 st Century," <i>Scientific American</i> , 278(4):80-85
	218	* Stutzmann et al., 1998, "Moving Beyond Wireless Voice Systems," <i>Scientific American</i> , 278(4):92-93
	219	* Driscoll, "Wireless Caller Location Systems", 1998, <i>GSP World Advanstar Communications, Inc.</i> , www.gpsworld.com/1198/1198driscoll.html , pgs. 1-8
	220	* Junius et al., "New Methods for Processing GSM Radio Measurement Data: Applications for Locating, Handover, and Network Management", 1994, <i>Communication Network, Aachen University of Technology</i> , pgs. 338-342
	221	* Low, "Comparison of Urban Propagation Models with CW-Measurements", 1992, <i>IEEE Deutsche Bundespost Telekom</i> , pgs. 936-942
	222	* "Location Systems and Technologies", 1994, <i>Wireless Emergency Services JEM Report</i> , Annex A pgs. 42-46 and Appendix A pgs. 1-2
	223	* Fechner et al., "A Hybrid Neural Network Architecture for Automatic Object Recognition", 1994, <i>IEEE</i> , pgs. 187-194
✓	224	* Sousa et al., "Delay Spread Measurements for the Digital Cellular Channel in Toronto", 1994, <i>IEEE</i> , pgs. 837-847
DP	225	* Goldsmith et al., "A Measurement-Based Model for Predicting Coverage Areas of Urban Microcells", 1993, <i>IEEE</i> , pgs. 1013-1023

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DP	226	* Ichitsubo et al., "A Statistical Model for Microcellular Multipath Propagation Environment", Prior to 12/22/97, <i>Wireless Systems Laboratories</i> , pgs. 1-6
↑	227	* Wittenben et al., "A Low Cost Noncoherent Receiver with Adaptive Antenna Combining for High Speed Wireless Lans", Prior to 12/22/97, <i>ASCOM Systec AG</i> , pgs. 1-4
	228	* Gaspard et al., "Position Assignment in Digital Cellular Mobile Radio Networks (e.g. GSM) derived from Measurements at the Protocol Interface", Prior to 12/22/97, pgs. 1-5
	229	* Dutta et al., "Modified Adaptive Multiuser Detector for DS-CDMA in Multipath Fading", Prior to 12/22/97, pgs. 1-7
	230	* Gallani, "Neural Network Learning and Expert Systems", 1994, <i>The MIT Press</i> , pgs. 132-137
	231	* Striglis et al., "A Multistage RAKE Receiver for Improved Capacity of CDMA Systems", 1994, <i>IEEE Vehicular Technology Conference</i> , pgs. 1-5
	232	* Chan et al., "Multipath Propagation Effects on a CDMA Cellular System", 1994, <i>IEEE</i> , pgs. 848-855
	233	* Wolfe et al., "Field Strength Prediction in Indoor Environments with Neural Networks", Prior to 12/22/97, pgs. 1-5
	234	* "The Metasearch Engine Years: Fit the First", 1992, http://www.comman.org/people/spc/refs/search.hpl.html , pgs. 1-3
	235	* Lawrence et al., "Northern Light Search Engine Leads the Pack- Others Fall Behind", 5/1/98, <i>Online Newsletter</i> , 19(5)pgs. 1-2
	236	* Johnson, "Smart Technology Busting Out All Over Web", 6/15/98, <i>Electronic Engineering Times</i> , 1012 pgs. 1-6
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	239	* Iwayama et al., "Cluster-Based Text Categorization: A Comparison of Category Search Strategies", 1995, <i>ACM-SIGIR</i> , pgs. 273-279
	240	* Botafogo, "Cluster Analysis for Hypertext Systems", June 1993, <i>ACM-SIRIG</i> , pgs. 116-124
	241	* Wang Baldonado et al., "SenseMaker: An Information-Exploration Interface Supporting the Contextual Evolution of a User's Interests", 1997, <i>ACM-CHI</i> , pgs. 11-18
	242	* Baldazo, "Navigating with a Web Compass: Quarterdeck Harnesses Leading-edge "Metasearch" Technology to Create a Smart Agent that Searches the Web and organizes the Results", March 1996, <i>BYTE</i> , pgs. 97-98
✓	243	* Weiss et al., "HyPursuit: A Hierarchical Network Search Engine that Exploits Content-Link Hypertext Clustering", 1996, <i>Hypertext</i> , pgs. 180-193
DP	244	Christ, U.S. Provisional Patent Application Serial No. 60/038,037 Entitled "METHOD AND APPARATUS FOR TRACKING AND LOCATING PERSONNEL" filed February 7, 1997

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DP	245	Maloney; U.S. Provisional Patent Application Serial No. 60/035,691 Entitled "ROBUST, EFFICIENT, LOCALIZATION SYSTEM" filed January 16, 1997
↑	246	Maloney; U.S. Provisional Patent Application Serial No. 60/017,269 Entitled "EFFICIENT, DISTRIBUTED, TIME DIFFERENCE LOCALIZATION SYSTEM" filed May 13, 1996
	247	U.S. Patent Application Serial No. 08/355,901 Entitled "MICR-MINIATURE EMERGENCY GEO-LOCATION BEACON SYSTEM FOR PERSONAL SECURITY", filed December 13, 1994
	248	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Paper from Examiner M. Blum of Group Art Unit 2202
	249	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Response from Examiner regarding communication filed on December 26, 1995 Dated July 23, 1996
	250	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Examiner Interview Summary Record Dated: August 13, 1996
	251	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Office Action Summary Dated: March 14, 1997
	252	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Office Action Summary Dated: March 17, 1998
	253	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Office Action Summary Dated: June 24, 1998
	254	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Advisory Action Dated: August 11, 1998
DP	255	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Advisory Action Dated: September 9, 1998

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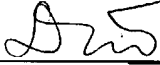
DP	255	Communication from U.S. Patent and Trademark Office Re: U.S. Patent Application No. 08/355,901 Advisory Action Dated: October 9, 1998
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